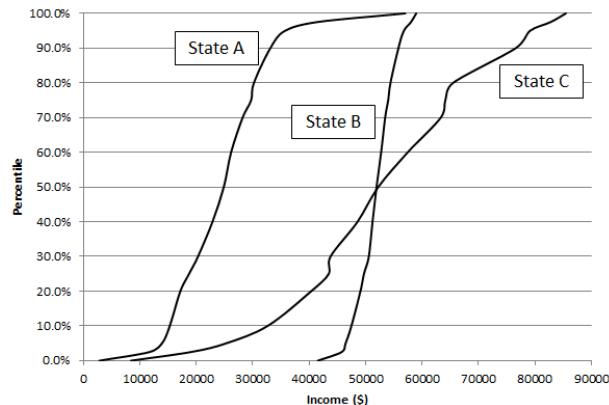


1. Answer the following True/False questions. (1 pt each)

a.	A CDF plot can be used to visualize the entire spectrum of a set of numerical measurements.	<input type="radio"/> TRUE	<input type="radio"/> FALSE
b.	It is possible for the median to be less than zero.	<input type="radio"/> TRUE	<input type="radio"/> FALSE
c.	It is possible for the average to be less than zero.	<input type="radio"/> TRUE	<input type="radio"/> FALSE
d.	Suppose that the lowest score on a quiz was a 10 and the highest score was a 20. The median quiz score will be 15.	<input type="radio"/> TRUE	<input type="radio"/> FALSE
e.	The median is more affected by outliers than the average.	<input type="radio"/> TRUE	<input type="radio"/> FALSE
f.	The 50 th percentile and the median value are always the same value in a dataset.	<input type="radio"/> TRUE	<input type="radio"/> FALSE

Your friend has collected a sufficiently large random sample of data from residents in three different states to investigate possible disparities in income.

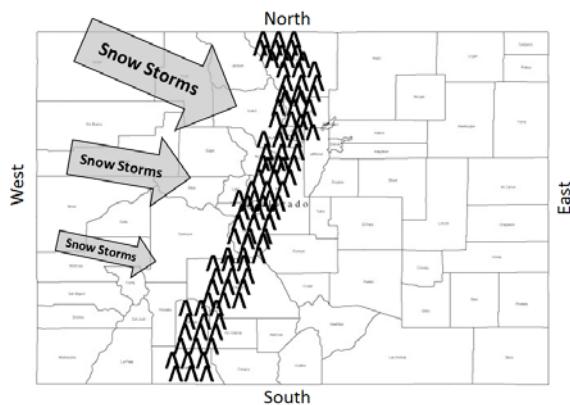


2. Answer the following True/ False questions regarding this CDF plots made by your friend. (2 pts each)

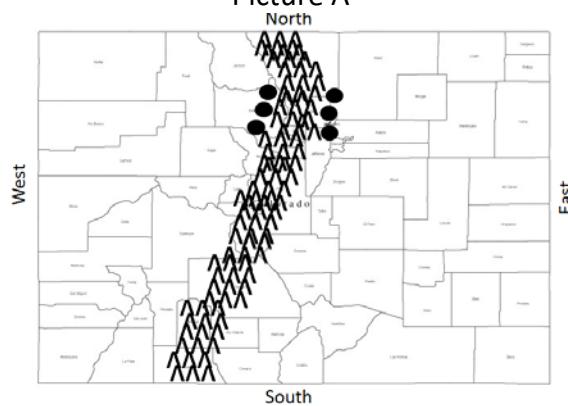
a.	The median income levels for State B and C are about the same.	<input type="radio"/> TRUE	<input type="radio"/> FALSE
b.	State C is likely to have the most amount of disparity, i.e. spread, in income levels because its line is not as steep as the others.	<input type="radio"/> TRUE	<input type="radio"/> FALSE
c.	Consider only those people on the lower end of the income spectrum; State C appears to have the most amount of income disparity for this population of people.	<input type="radio"/> TRUE	<input type="radio"/> FALSE
d.	State A appears to have some outliers on the upper end.	<input type="radio"/> TRUE	<input type="radio"/> FALSE

Consider the snowfall amounts from various weather stations across Colorado. For this quiz, you should assume that snow storms in Colorado come from the North and West directions. Also, the mountains (shown as pyramids) are known to stop much of the snow resulting in large quantities of snow on the western side of these mountains. The dots in the following pictures represent weather stations in which snowfall amounts were collected.

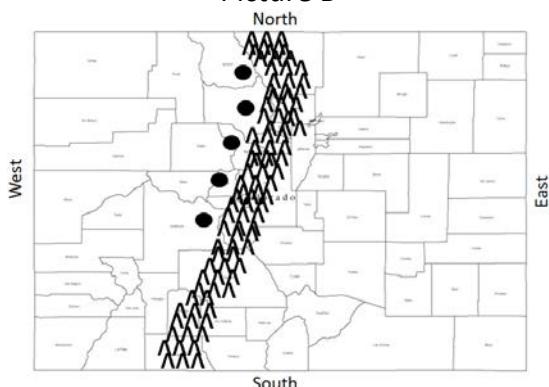
Snow Patterns in Colorado



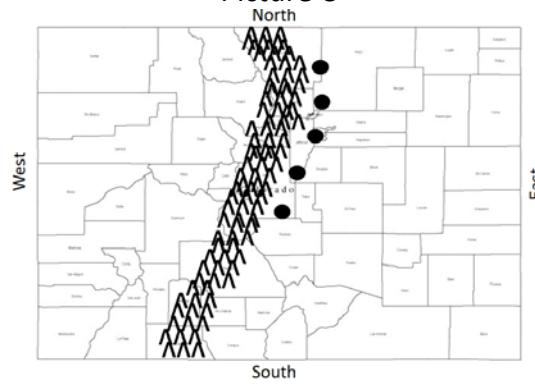
Picture A



Picture B



Picture C



3. Answer the following True and False questions. (2 pts each)

a. Picture B is likely to produce the largest average snowfall amount.	<input checked="" type="radio"/> TRUE	<input type="radio"/> FALSE
b. Picture B and C are likely to have very similar averages.	<input type="radio"/> TRUE	<input checked="" type="radio"/> FALSE
c. Picture A will have the largest average because it has six stations instead of five.	<input type="radio"/> TRUE	<input checked="" type="radio"/> FALSE